

Appl. No. 10/628,892
Examiner: Tran, Chuc, Art Unit 2821
In response to the Office Action dated March 23, 2005

Date: June 23, 2005
Attorney Docket No. 10112541

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

Claim 1 (currently amended): A complex antenna apparatus, comprising:

- a base having a central through hole and a ground;
- a circular polarization antenna disposed on the base and having a hollow feeding portion corresponding to the central through hole; and
- a capacitance ~~(inductance)-cylinder-loading~~ monopole antenna disposed in the central through hole of the base ~~via the hollow feeding portion of the circular polarization antenna and~~ comprising a monopole linear antenna and a conductive element covering the monopole linear antenna, wherein the conductive element is separated from the ground of the base.

Claim 2 (canceled)

Claim 3 (currently amended): The complex antenna apparatus as claimed in claim 1, wherein the capacitance ~~(inductance)-cylinder-loading~~ monopole antenna further comprises a dielectric disposed between the conductive element and monopole linear antenna.

Claim 4 (canceled)

Claim 5 (original): The complex antenna apparatus as claimed in claim 1, wherein the circular polarization antenna is circular.

Claim 6 (original): The complex antenna apparatus as claimed in claim 1, wherein the circular polarization antenna is rectangular.

Claim 7 (currently amended): The complex antenna apparatus as claimed in claim 1, further comprising an RF module connected to the circular polarization antenna and capacitance ~~(inductance)-cylinder-loading~~ monopole antenna.

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Claim 8 (currently amended): The complex antenna apparatus as claimed in claim 7, wherein the base further comprises a through hole, the circular polarization antenna and capacitance (~~inductance~~) cylinder-loading monopole antenna connected to the RF module via the through hole and central through hole of the base, respectively.

Claim 9 (original): The complex antenna apparatus as claimed in claim 7, further comprising a demodulator connected to the RF module.

Claim 10 (original): The complex antenna apparatus as claimed in claim 1, wherein the base is ceramic.

Claim 11 (original): The complex antenna apparatus as claimed in claim 3, wherein the dielectric is Teflon.

Claim 12 – 26 (canceled)

Claim 27 (currently amended): A complex antenna apparatus, comprising:

- a base having a central through hole;
- a circular polarization antenna disposed on the base and having a hollow feeding portion corresponding to the central through hole;
- a capacitance (~~inductance~~) cylinder-loading monopole antenna disposed in the central through hole of the base via the hollow feeding portion of the circular polarization antenna;
- an RF module connected to the circular polarization antenna and capacitance (~~inductance~~) cylinder-loading monopole antenna; and
- a demodulator connected to the RF module.

Claim 28 (currently amended): A complex antenna apparatus, comprising:

- a base having a central through hole;
- a circular polarization antenna disposed on the base and having a hollow feeding portion corresponding to the central through hole; and
- a capacitance (~~inductance~~) cylinder-loading monopole antenna disposed in the central through hole of the base via the hollow feeding portion of the circular polarization antenna and

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comprising a monopole linear antenna, a conductive element and a Teflon dielectric, wherein the conductive element covers the monopole linear antenna, and the Teflon dielectric is disposed between the conductive element and the monopole linear antenna.